

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800253001

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TEST REPORT

Application No.: SZCR2308002530AT **Applicant:** WowWee Group Limited

Address of Applicant: Energy Plaza, Suite 301A - C 92 Granville Road, TST EAST Kowloon Hong

Kong

Manufacturer: WowWee Group Limited

Address of Manufacturer: Energy Plaza, Suite 301A - C 92 Granville Road, TST EAST Kowloon Hong

Kong

Factory: Zhongshan Oszekei Electronic Metal Plastic Co., Ltd

Address of Factory: Shenwan Town Industrial Zone, Zhongshan City, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Disney Marvel Spider Bot Shirt Crawler

Model No.: 4819

Trade Mark: WowWee

FCC ID: OKP4819A

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2023-08-04

Date of Test: 2023-08-12 to 2023-08-14

Date of Issue: 2023-08-21

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2023-08-21		Original		

Authorized for issue by:		
	Bris Chan	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass	
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass	
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass	
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass	
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass	



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General Information

Details of E.U.T. 4.1

Power supply:	Lithium Ion Battery: DC 3.7V 150mAh 0.555Wh rechargeable battery
Frequency Range	2430MHz to 2453MHz
Number of Channels:	24
Channel Spacing:	1MHz
Modulation Type:	GFSK
Antenna Type:	PCB
Antenna Gain:	-0.58dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Operation I	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2430MHz	7	2436MHz	13	2442MHz	19	2448MHz
2	2431MHz	8	2437MHz	14	2443MHz	20	2449MHz
3	2432MHz	9	2438MHz	15	2444MHz	21	2450MHz
4	2433MHz	10	2439MHz	16	2445MHz	22	2451MHz
5	2434MHz	11	2440MHz	17	2446MHz	23	2452MHz
6	2435MHz	12	2441MHz	18	2447MHz	24	2453MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2430MHz
The Middle channel(CH13)	2442MHz
The Highest channel(CH24)	2453MHz



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D11D
USB Cable	PHILIPS	SWR2101	REF. No.SEA07C00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions Above 1GHz	± 4.6dB (1GHz-18GHz);± 4.8dB (18MHz-40GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions a	t AC Power Line (150	kHz-30MHz)			
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Field Strength of the Fundamental Signal (15.249(a))						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	



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Restricted Band Around Fundamental Frequency						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	

Radiated Emissions Be	low 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06



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Radiated Emissions Ab	ove 1GHz				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.58dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Evenuency of emission/MUT)	Conducted limit(dBµV)					
Frequency of emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm of the frequency.						
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz						

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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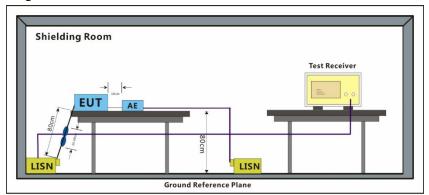


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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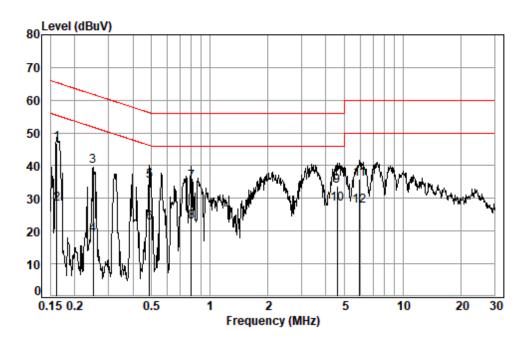


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Test Mode: 01; Line: Live line



: Shielding Room

Condition: Line Job No. : 02530AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1615	0.02	9.62	37.10	46.74	65.38	-18.64	QP
2	0.1615	0.02	9.62	18.53	28.17	55.38	-27.21	Average
3	0.2495	0.03	9.62	30.24	39.89	61.78	-21.89	QP
4	0.2495	0.03	9.62	9.13	18.78	51.78	-33.00	Average
5	0.4889	0.04	9.62	25.53	35.19	56.19	-21.00	QP
6	0.4889	0.04	9.62	12.96	22.62	46.19	-23.57	Average
7	0.8045	0.05	9.62	25.18	34.85	56.00	-21.15	QP
8	0.8045	0.05	9.62	13.29	22.96	46.00	-23.04	Average
9	4.5736	0.09	9.67	24.07	33.83	56.00	-22.17	QP
10 *	4.5736	0.09	9.67	18.57	28.33	46.00	-17.67	Average
11	5.9608	0.11	9.69	25.98	35.78	60.00	-24.22	QP
12	5.9608	0.11	9.69	17.94	27.74	50.00	-22.26	Average



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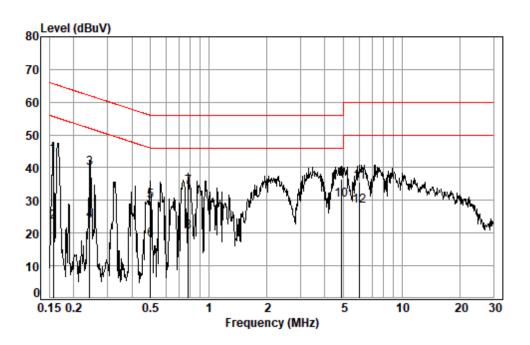


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Test Mode: 01; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02530AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	——dB	dBuV	dBuV	dBuV	dB	
	rii 12	ub	ub	ubuv	ubuv	ubuv	ub	
1	0.1573	0.02	9.62	34.06	43.70	65.60	-21.90	QP
2	0.1573	0.02	9.62	13.92	23.56	55.60	-32.04	Average
3	0.2416	0.03	9.62	30.14	39.79	62.04	-22.25	QP
4	0.2416	0.03	9.62	14.21	23.86	52.04	-28.18	Average
5	0.4994	0.04	9.62	20.27	29.93	56.01	-26.08	QP
6	0.4994	0.04	9.62	8.35	18.01	46.01	-28.00	Average
7	0.7835	0.05	9.62	24.38	34.05	56.00	-21.95	QP
8	0.7835	0.05	9.62	10.72	20.39	46.00	-25.61	Average
9 *	4.8738	0.09	9.68	26.80	36.57	56.00	-19.43	QP
10 *	4.8738	0.09	9.68	20.32	30.09	46.00	-15.91	Average
11	6.0563	0.11	9.70	25.91	35.72	60.00	-24.28	QP
12	6.0563	0.11	9.70	18.44	28.25	50.00	-21.75	Average



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

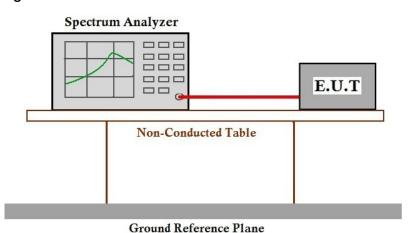
Operating Environment:

Temperature: 25.6 °C Humidity: 56.8 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	4.0117	Pass
Middle	3.8313	Pass
Highest	3.9725	Pass

Mode:00: Channel:Low



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Mode:00: Channel:middle





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Mode:00; Channel:High





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7.3 Field Strength of the Fundamental Signal (15.249(a))

47 CFR Part 15, Subpart C 15.249(a) Test Requirement Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Atmospheric Pressure: 1005 mbar Humidity: 52.8 % RH

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	01	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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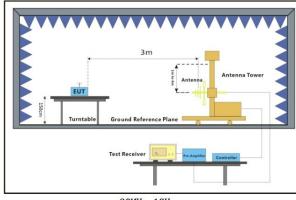


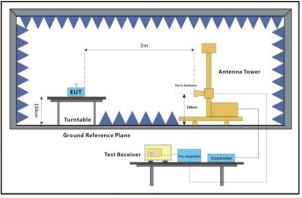
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7.3.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g.lf the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h.Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i.The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j.Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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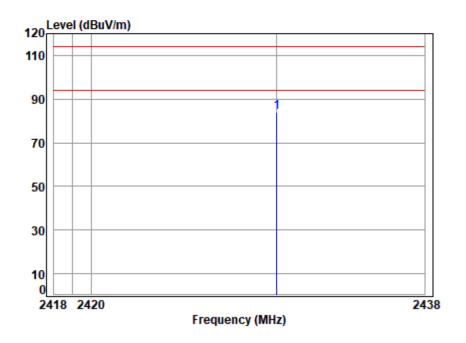


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

: 2430 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB dB/m dBuV dBuV/m dBuV/m

5.11 28.98 35.63 85.29 83.75 114.00 -30.25 peak 1 q 2430.000



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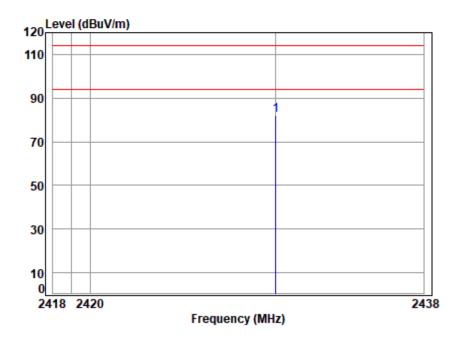


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02530AT

: 2430 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB dB/m dBuV dBuV/m dBuV/m

5.11 28.98 35.63 83.70 82.16 114.00 -31.84 peak 1 q 2430.000



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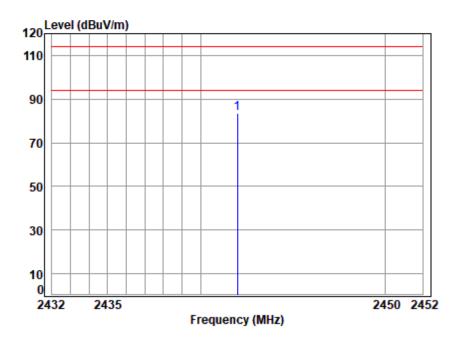


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

: 2442 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dBuV dBuV/m dBuV/m dB dB/m

5.12 29.05 35.62 85.09 83.64 114.00 -30.36 peak 1 q 2442.000



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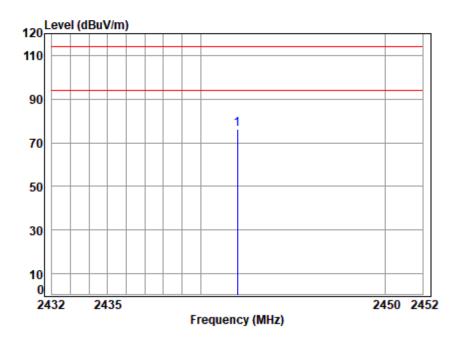


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 02530AT

: 2442 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dBuV dBuV/m dBuV/m dB dB/m

5.12 29.05 35.62 77.51 76.06 114.00 -37.94 peak 1 q 2442.000



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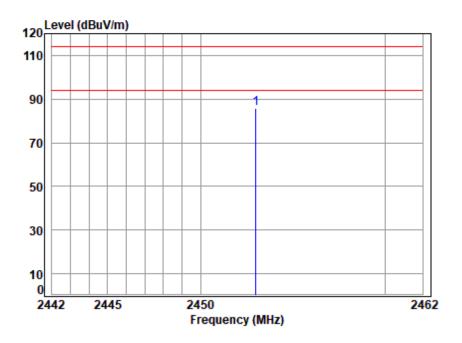


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

: 2453 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dBuV dBuV/m dBuV/m dB dB/m

5.13 29.12 35.62 87.26 85.89 114.00 -28.11 peak 1 q 2453.000



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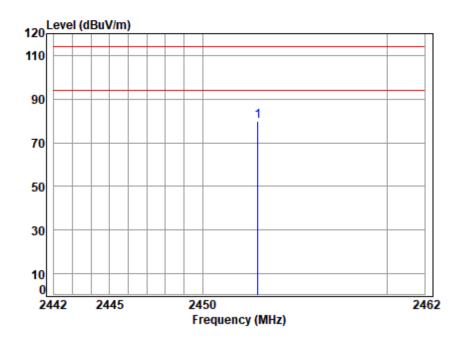


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 02530AT

: 2453 Field strength Mode

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dBuV dBuV/m dBuV/m dB dB/m

5.13 29.12 35.62 81.26 79.89 114.00 -34.11 peak 1 q 2453.000



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7.4 Restricted Band Around Fundamental Frequency

47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark		
30MHz-88MHz	40.0	Quasi-peak Value		
88MHz-216MHz	43.5	Quasi-peak Value		
216MHz-960MHz	46.0	Quasi-peak Value		
960MHz-1GHz	54.0	Quasi-peak Value		
Above 1GHz	54.0	Average Value		
Above 1GHz	74.0	Peak Value		

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209.whichever is the lesser attenuation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 52.9 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	01	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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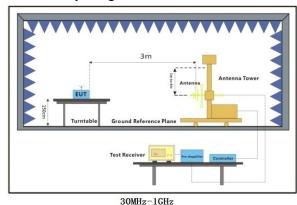


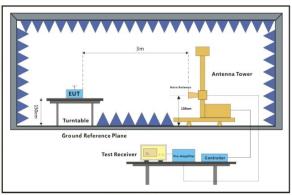
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7.4.3 Test Setup Diagram





Above 1GHz

7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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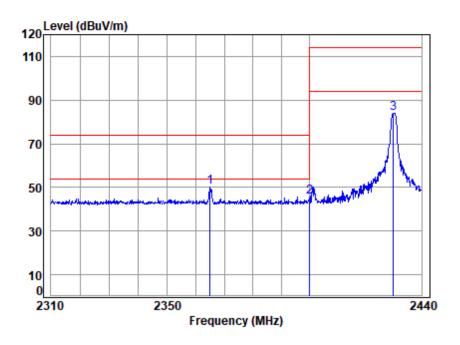


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

Mode : 2430 Band edge

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2	2364.899	5.05	28.66	35.65	51.95	50.01	74.00	-23.99	Peak
2 2	2400.000	5.08	28.78	35.64	47.29	45.51	74.00	-28.49	peak
3 2	2429.868	5.11	28.98	35.63	85.50	83.96	114.00	-30.04	peak



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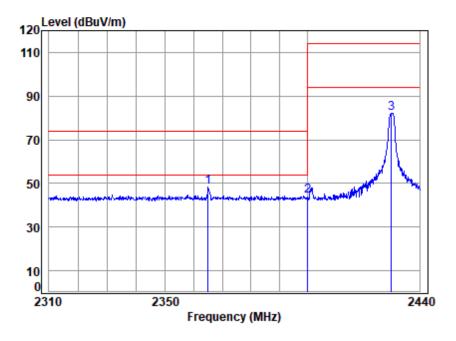


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02530AT

1 2 3

: 2430 Band edge Mode

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	2364.899	5.05	28.66	35.65	50.16	48.22	74.00	-25.78	Peak
	2400.000	5.08	28.77	35.64	46.04	44.25	74.00	-29.75	peak
	2429 868	5 11	28 98	35 63	83 78	82 24	114 00	-31 76	neak



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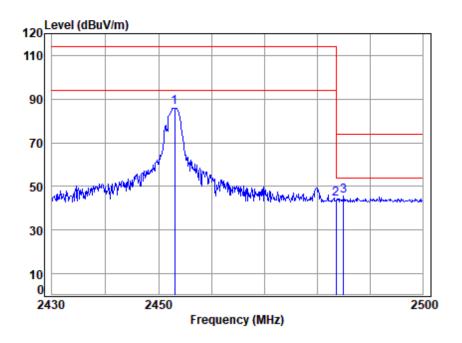


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

Mode : 2453 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2453.000	5.13	29.12	35.62	87.44	86.07	114.00	-27.93	peak
2	2483.500	5.16	29.30	35.61	45.62	44.47	74.00	-29.53	peak
3	2484.920	5.16	29.31	35.61	46.58	45.44	74.00	-28.56	Peak



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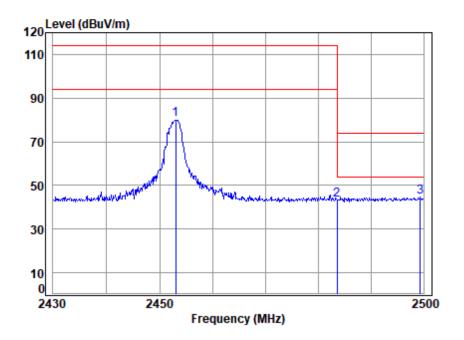


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 02530AT

Mode : 2453 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2453.000	5.13	29.12	35.62	81.83	80.46	114.00	-33.54	peak
	2483.500	5.16	29.30	35.61	44.69	43.54	74.00	-30.46	peak
- 0	2499 385	5 17	29 40	35 60	45 63	44 60	74 00	-29 40	Peak



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7.5 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 45.3 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	01	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.



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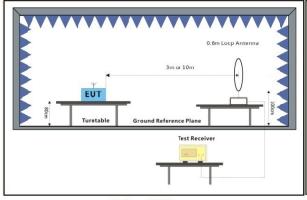


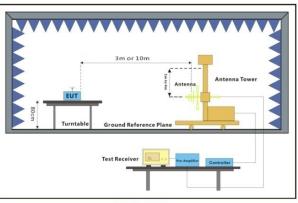
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7.5.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.5.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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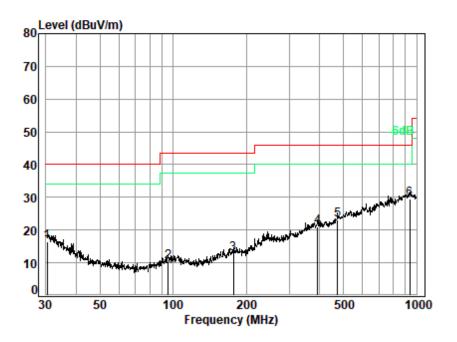


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02530AT

Test Mode: 00

	Freq	Ant Factor		Preamp Factor					Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.32	21.27	0.64	27.80	22.38	16.49	40.00	-23.51	QP
2	95.43	12.76	1.16	27.62	24.00	10.30	43.50	-33.20	QP
3	176.89	14.63	1.61	27.33	23.73	12.64	43.50	-30.86	QP
4	392.10	21.51	2.52	27.30	24.40	21.13	46.00	-24.87	QP
5	473.83	23.01	2.80	27.67	25.00	23.14	46.00	-22.86	QP
6 a		28.64	4.19	26.94	23.64	29.53	46.00	-16.47	OP.



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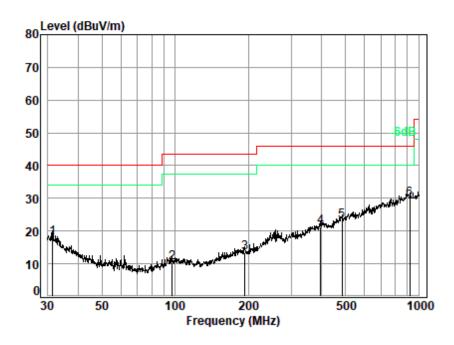


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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 02530AT

Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.40	20.59	0.66	27.80	24.51	17.96	40.00	-22.04	QP
2	97.11	12.89	1.17	27.62	23.86	10.30	43.50	-33.20	QP
3	193.09	14.60	1.69	27.27	24.27	13.29	43.50	-30.21	QP
4	396.24	21.65	2.54	27.32	24.35	21.22	46.00	-24.78	QP
5	483.91	23.12	2.84	27.71	24.75	23.00	46.00	-23.00	QP
6 0		28 42	1 15	27 02	2/ 15	20 70	16 00	16 30	ΛD



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7.6 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.6.1 E.U.T. Operation

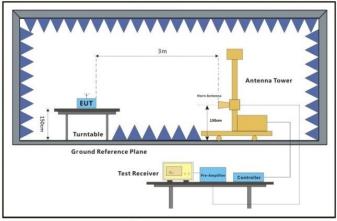
Operating Environment:

Temperature: 22.0 °C Humidity: 53.0 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	01	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.6.3 Test Setup Diagram



Above 1GHz



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7.6.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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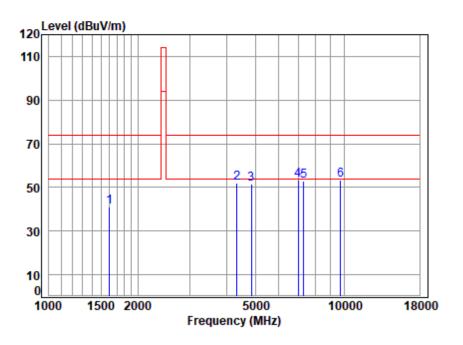


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

Mode : 2430 TX RSE

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	4.20	26.51	36.63	47.15	41.23	74.00	-32.77	peak
2		4329.354	7.01	33.60	34.56	45.82	51.87	74.00	-22.13	peak
3		4860.000	7.35	34.02	34.90	44.87	51.34	74.00	-22.66	peak
4	q	6995.172	8.92	35.79	35.91	44.75	53.55	74.00	-20.45	peak
5		7290.000	9.28	35.88	35.96	43.94	53.14	74.00	-20.86	peak
6		9720.000	12.44	37.14	35.56	39.21	53.23	74.00	-20.77	peak



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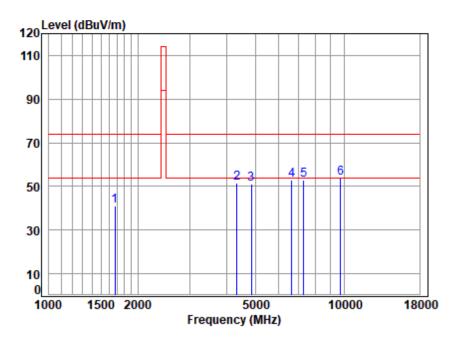


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02530AT

Mode : 2430 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.30	26.75	36.46	46.47	41.06	74.00	-32.94	peak
2	4341.886	7.02	33.60	34.57	45.48	51.53	74.00	-22.47	peak
3	4860.000	7.35	34.02	34.90	44.51	50.98	74.00	-23.02	peak
4	6640.542	8.66	35.60	35.61	44.37	53.02	74.00	-20.98	peak
5	7290.000	9.28	35.88	35.96	43.86	53.06	74.00	-20.94	peak
6 0	9720.000	12.44	37.14	35.56	39.93	53.95	74.00	-20.05	peak



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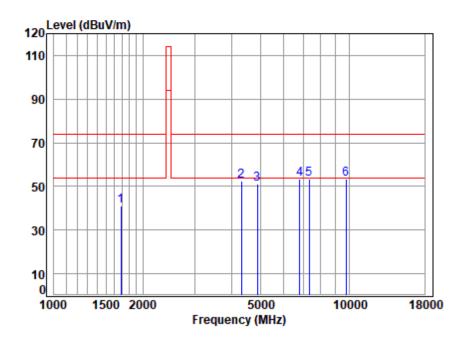


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

Mode : 2442 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.31	26.77	36.43	46.20	40.85	74.00	-33.15	peak
2	4316.859	7.00	33.60	34.55	46.28	52.33	74.00	-21.67	peak
3	4884.000	7.36	34.07	34.91	44.65	51.17	74.00	-22.83	peak
4	6795.879	8.78	35.50	35.74	44.77	53.31	74.00	-20.69	peak
5 q	7326.000	9.32	35.90	35.97	44.32	53.57	74.00	-20.43	peak
6	9768.000	12.47	37.20	35.56	39.38	53.49	74.00	-20.51	peak



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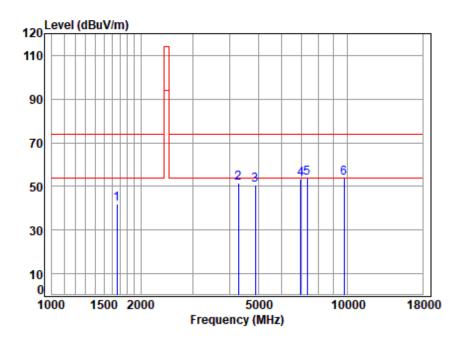


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02530AT

Mode : 2442 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.28	26.73	36.48	47.36	41.89	74.00	-32.11	peak
2	4279.589	6.98	33.60	34.53	45.53	51.58	74.00	-22.42	peak
3	4884.000	7.36	34.07	34.91	44.02	50.54	74.00	-23.46	peak
4	6954.852	8.89	35.71	35.87	44.78	53.51	74.00	-20.49	peak
5	7326.000	9.32	35.90	35.97	44.44	53.69	74.00	-20.31	peak
6	q 9768.000	12.47	37.20	35.56	39.60	53.71	74.00	-20.29	peak



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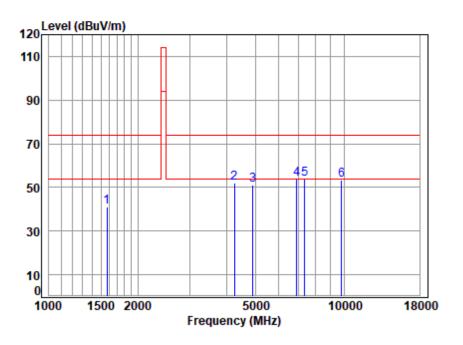


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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02530AT

Mode : 2453 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	4.17	26.19	36.69	47.18	40.85	74.00	-33.15	peak
2	4242.641	6.95	33.57	34.50	46.03	52.05	74.00	-21.95	peak
3	4906.000	7.37	34.11	34.92	44.42	50.98	74.00	-23.02	peak
4	6914.763	8.86	35.63	35.84	45.11	53.76	74.00	-20.24	peak
5 q	7359.000	9.36	35.90	35.98	44.62	53.90	74.00	-20.10	peak
6	9812.000	12.50	37.22	35.57	39.09	53.24	74.00	-20.76	peak



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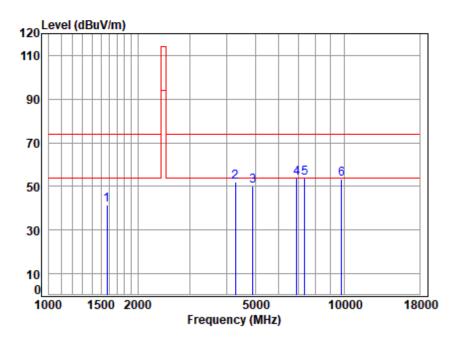


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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02530AT

Mode : 2453 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	4.17	26.19	36.69	47.69	41.36	74.00	-32.64	peak
2	4291.977	6.99	33.60	34.54	46.07	52.12	74.00	-21.88	peak
3	4906.000	7.37	34.11	34.92	43.58	50.14	74.00	-23.86	peak
4	6914.763	8.86	35.63	35.84	45.15	53.80	74.00	-20.20	peak
5 q	7359.000	9.36	35.90	35.98	44.65	53.93	74.00	-20.07	peak
6	9812.000	12.50	37.22	35.57	39.25	53.40	74.00	-20.60	peak



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Test Setup Photo 8

Refer to Setup Photo for SZCR2308002530AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2308002530AT

- End of the Report -



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